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## E-VISION LASER 4K DIGITAL PROJECTOR

THE VISIONARIES CHOICE




### E-Vision Laser 4K-UHD Black HC

**4,200 ANSI / 4,700 ISO Lumens | Contrast Ratio: 18,000:1 (Dynamic Black) 2,000:1 native | Part Number: 122-214**

#### Key Specifications:

<b>Colour System:</b>	Laser Phosphor with colourwheel
<b>Display Type:</b>	1 x 0.66" WQXGA+ TRP UHD DMD™
<b>DMD Specification:</b>	Display resolutions 4K-UHD (3840 x 2160) or WQXGA+ (2716 x 1528) 8.3 megapixels on screen at 4K-UHD Fast transit pixels for smooth greyscale and improved contrast.
<b>Aspect Ratio:</b>	16:9
<b>Fill Factor</b>	Not applicable: Smooth Picture DMD™
<b>Key Features:</b>	<b>Video &amp; Graphics Processing</b> <ul style="list-style-type: none"><li>• HDR processing</li><li>• Two projectors in one - 4K-UHD and WQXGA+.</li><li>• DisplayPort 1.2.</li><li>• 2 x HDMI 2.0.</li><li>• 2 x HDMI 1.4b for Dual Pipe processing and Frame Sequential 3D format.</li><li>• Sequential Processing: 3D via single HDMI 1.4b input.</li><li>• Dual Pipe Processing: 3D Left and Right Eyes via two HDMI 1.4b inputs.</li><li>• Synchronisation of active glasses.</li><li>• 3G-SDI with loop-through.</li><li>• DICOM simulation mode.</li></ul>

	<div><div>Geometry Correction</div><div><ul style="list-style-type: none"><li>• Cornerstone, Vertical &amp; Horizontal Keystone, Pincushion &amp; Barrel, Arc and Image Rotation.</li><li>• Non-linear warp.</li><li>• Digital zoom, pan and scan.</li><li>• Blanking control for custom input window sizing.</li><li>• Scaling available for fixed aspect ratio screens.</li><li>• Unscaled processing for pixel mapped display.</li></ul></div></div> <div><div>Edge Blending</div><div><ul style="list-style-type: none"><li>• Blending control available for all sides with width control.</li><li>• Correction for non-active pixels at the edge of the display.</li></ul></div></div> <div><div>Picture in Picture</div><div><ul style="list-style-type: none"><li>• Two sources can be displayed simultaneously using 2D inputs: either picture in picture (PIP), or side by side (PBP), with original aspect ratios maintained.</li></ul></div></div> <div><div>HDBaseT® Interface</div><div><ul style="list-style-type: none"><li>• Built in support for reception of uncompressed High Definition Video over standard CAT5e/6 LAN cable.</li><li>• Allows projector to be placed up to 100m from source with low cost cabling.</li><li>• Supports up to 4K UHD 3840 x 2160@60Hz 4:2:0 or 4K UHD 3840 x 2160@30Hz 4:4:4</li></ul></div></div> <div><div>Colour Processing</div><div><ul style="list-style-type: none"><li>• Four colour modes available.</li><li>• Powerful seven point colour correction for accurate colour matching with presets.</li><li>• Easy colour temperature selection.</li><li>• Manual seven point colour adjustment.</li><li>• Traditional lifts and gains.</li></ul></div></div> <div><div>Projector Controller Software</div><div><ul style="list-style-type: none"><li>• Intuitive user interface for network control.</li><li>• Simultaneous control of user-defined groups of projectors.</li><li>• At-a-glance monitoring of projector status.</li></ul></div></div> <div><div>Projector Automation</div><div><ul style="list-style-type: none"><li>• Real-time clock provides daily on/off automation.</li><li>• E-mail alerts for system status.</li></ul></div></div>						
Source Compatibility	<div><div>2D graphics standards up to 4K-UHD 3840 x 2160 resolution at 60Hz via HDMI 2.0, HDBaseT (4:2:0) and DisplayPort inputs.</div><div>3D graphics standards up to WQXGA at 120Hz DualPipe via HDMI 1.4b inputs.</div><div>3GSDI is SMPTE 292M, SMPTE 259M-C and SMPTE 424M compliant.</div><div><div>WQXGA+ mode</div><div>2D sources up to WQXGA+ at 120Hz can be displayed scaled to fit WQXGA+.</div><div>3D sources up to WQXGA at 120Hz can be displayed scaled to fit WQXGA+.</div></div><div><div>4K-UHD mode</div><div>2D sources up to 4K-UHD will be displayed scaled to fit 4K-UHD.</div></div><div><div>Auto mode</div><div>Sources greater than WQXGA+ will be displayed scaled to fit 4K-UHD.</div><div>Sources up to WQXGA+ will be displayed scaled to fit WQXGA+.</div></div></div>						
Inputs/Outputs	<table><tr><td colspan="3">Video &amp; Computer</td></tr><tr><td></td><td></td><td></td></tr></table>	Video & Computer					
Video & Computer							

	Type	Connector	Qty
	DisplayPort 1.2 (2D)	DisplayPort	1
	HDMI 1.4b (3D)	HDMI	2
	HDMI 2.0 (2D)	HDMI	2
	3G-SDI in (2D)	BNC	1
	3G-SDI out	BNC	1
	HDBaseT (see LAN) (2D)	RJ45	1
	.		
	Communication & Control		
	Type	Connector	Qty
3D Sync Out			
3D Sync In			
LAN	BNC	1	
RS232	BNC	1	
Wired Remote	RJ45	2	
12V Trigger	9-pin D Sub	1	
3D Sync IR Out	3.5mm Stereo Jack	1	
	3.5mm Stereo Jack	2	
<b>NOTE: One of the LAN ports is shared with HDBase-T.</b>	BNC	1	
<b>3D Formats Supported</b>	Frame Sequential Dual-Pipe		
<b>HDTV Formats Supported</b>	1080p (24Hz, 25Hz, 30Hz, 50Hz, 60Hz, 100Hz, 120Hz) 1080i (50Hz, 60Hz) 720p (50, 60Hz) 2K (24Hz, 25Hz, 30Hz, 50Hz, 60Hz) 4K-UHD (24Hz, 25Hz, 30Hz, 50Hz, 60Hz)		
<b>Computer Compatibility</b>	<b>2D</b> 4K-UHD up to 60Hz. WQXGA+ up to 120Hz. <b>3D</b> Supported formats will be displayed within WQXGA+.		
<b>Bandwidth</b>	498 megapixels per second via DisplayPort and HDMI 2.0.		
<b>Remote Control</b>	Addressable IR remote control, wireless and wired. On-Board keypad		
<b>Automation Control</b>	Crestron RoomView® Connected PJLink Class 1 LAN RS232 AMX (Device Discovery) Served web pages (projector status, projector control, Crestron RoomView®, network settings, alert mail setup, time setup, error log, On Screen Display)		
<b>Colour Temperature</b>	3200K to 9300K		
<b>Operation</b>			
<b>illumination Type</b>	Laser Light Source		
<b>Typical illumination Life</b>	20,000 hours		

Lenses	Lens		Part No.	Optimised Focus Range*	Lens Shift (Frame)
	0.74 - 0.93 :1 zoom		118-679	1.02m - 12.7m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1 (L) 0.2 (R) frame
	1.24 - 1.78 :1 zoom		118-563	1.33m - 11.73m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1 (L) 0.2 (R) frame
	1.71 - 2.25 :1 zoom		118-562	1.83m - 14.9m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1 (L) 0.2 (R) frame
	2.20 - 3.67 :1 zoom		118-680	2.36m - 24.2m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1 (L) 0.2 (R) frame
	* Lens focal ranges above are the optimised distances but are likely to focus further, please contact your RSM for more details. Lens ratio tolerances: E-Vision Series: +/-3%. HighLite Series: +/- 5%. M-Vision Series: +/- 2%. Titan Series: +/-2%, INSIGHT Series: +/-2%,				
Lens Mount	Motorised and programmable shift, zoom and focus. Intelligent Lens Memory with 10 user-definable preset positions (except UST lens).				
Mechanical Mounting	Front/Rear Table Front/Rear Ceiling Adjustable Front/Rear Feet				
Orientation	Table Top or Inverted: Yes Pointing Up: Yes Pointing Down: Yes Roll (Portrait): Yes				
Power Requirements	100-130VAC and 200-240VAC selectable, 50/60Hz single phase				
Power Consumption	950 W @220 Vac (1000 W @110 Vac)				
Thermal Dissipation	Max 3139 BTU/hour @100 VAC Max 3002 BTU/hour @240 VAC				
Fan Noise	Smooth Picture On: Normal mode: typical 40 (max 42) dBA Eco2 mode: typical 37 (max 39) dBA Smooth Picture Off: Normal mode: typical 38 (max 40) dBA Eco2 mode: typical 34 (max 36) dBA				
Operating/Storage Temperature Operating:	Operating: 5 to 40C (41 to 104F) Storage: -10 to 60C (14 to 140F)				
Operating Humidity	10 to 85% non-condensing				
Weight	28.15 kg / 62 lbs				
Dimensions	L: 59.83 cm x W: 50 cm x H: 21.85 cm L: 23.55 in x W: 19.68 in x H: 8.60 in				
Safety & EMC Regulations	CE, FCC Class A, CCC, UL/cUL, FDA CB, KC, CEL, CECP				
Accessories	Accessory		Part No.		
	Infrared Remote (replacement)		117-880		

	<i>*Dimensions included for reference only and are subject to change. Please download the full set of CAD files for this display for more accurate information.</i>
<b>Downloads</b>	<a href="#">PDF CAD Drawings</a> <a href="#">AUTOCAD Drawings</a> <a href="#">STEP / IGS Drawings</a> <a href="#">Lens CAD Drawings</a>
<b>User Guide</b>	<a href="#">User Guides</a> <a href="#">User Guides (German)</a> <a href="#">User Guides (French)</a> <a href="#">Laser Risk Group Document</a> <a href="#">Important Information</a> <a href="#">Important Information (Korean)</a> <a href="#">Control Protocol</a> <a href="#">Ultra Short Throw Lens</a> <a href="#">Ultra Short Throw Lens Installation Guide</a>



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